JUCTION OF COPPER ALLOY HAVING E ÉF RESISTANT CHARACTERISTIC

nt Number:

JP61250154 \

ublication date:

1986-11-07

inventor(s):

SO HIDEHIKO; others: 01

Applicant(s)::

NIPPON MINING CO LTD

Requested Patent:

JP<u>61250154</u>

Application Number: JP19850089047 19850426

IPC Classification:

Priority Number(s):

C22F1/08

EC Classification: Equivalents:

Abstract

PURPOSE:To produce a Cu alloy which has an excellent stress relief resistant characteristic, exhibits high electrical conductivity and is inexpensive by subjecting the specifically composed Cu alloy consisting of Ni, Si and Cu to a soln. heat treatment at a high temp. then to an aging treatment at an adequate temp. CONSTITUTION:The Cu alloy consisting of 0.4-4.0wt% Ni and 0.1-1.0% Si, and if necessary, 0.001-2.0% >=1 kinds among P, Sn, As, Cr, Mg, Mn, Sb, Fe, Co, Al, Ti, Zr, Be and Zn and the balance Cu and unavoidable impurities is subjected to the soln. heat treatment at >=700 deg.C such a manner that the crystal grain size attains >=5mum. The above-mentioned Cu alloy is thereafter subjected to cold working at <=95% reduction of area according to need then to the aging treatment at 350-700 deg.C. The worked alloy is subjected to cold working at 20-95% reduction of area when needed and further to the heat treatment at 150-800 deg.C at which the alloy is not recrystallized. The Cu alloy having the excellent stress relief resistant characteristic is obtd. by the above-mentioned treatment. PURPOSE:To produce a Cu alloy which has an excellent stress relief resistant characteristic, exhibits high

Data supplied from the esp@cenet database - I2